

# UNITED STATES PATENT AND TRADEMARK OFFICE

٤٥

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1430
Alexandria, Viginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/204,123	12/02/1998	KAZUTAKA SHIBATA	8046.037USO	8046.037USO 5063	
22434	7590 07/02/2003				
BEYER WEAVER & THOMAS LLP			EXAMINER		
P.O. BOX 778 BERKELEY, CA 94704-0778			CHANG, RIC	CHANG, RICK KILTAE	
			ART UNIT	PAPER NUMBER	
			3729	29	
			DATE MAILED: 07/02/2003	~ 1	

Please find below and/or attached an Office communication concerning this application or proceeding.

·			k			
	Application No.	Applicant(s)	7			
	09/204,123	SHIBATA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Rick K. Chang	3729				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the o	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).  Status	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. (D) (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on 22 A	April 2003 .					
2a)⊠ This action is <b>FINAL</b> . 2b)□ Thi	is action is non-final.					
3) Since this application is in condition for alloward closed in accordance with the practice under a Disposition of Claims						
4) ☐ Claim(s) <u>1-9</u> is/are pending in the application.						
	4a) Of the above claim(s) <u>3,5,8 and 9</u> is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.	· · · · · · · · · · · · · · · · · · ·					
6)⊠ Claim(s) <u>1.2,4,6 and 7</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers	•					
9)☐ The specification is objected to by the Examine	r.					
10)☐ The drawing(s) filed on is/are: a)☐ accep	oted or b)⊡ objected to by the Exa	miner.				
Applicant may not request that any objection to the	• • • • • • • • • • • • • • • • • • • •	• •				
11)☐ The proposed drawing correction filed on		oved by the Examiner.				
If approved, corrected drawings are required in rep	•					
12) The oath or declaration is objected to by the Ex	aminer.					
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a	a)-(d) or (f).				
a)□ All b)□ Some * c)□ None of:						
1. Certified copies of the priority documents	s have been received.					
2. Certified copies of the priority documents	s have been received in Applicat	ion No				
<ul> <li>3. Copies of the certified copies of the prior application from the International But</li> <li>* See the attached detailed Office action for a list</li> </ul>	reau (PCT Rule 17.2(a)).	•				
14) Acknowledgment is made of a claim for domestic	c priority under 35 U.S.C. § 119(	e) (to a provisional application).				
a)  The translation of the foreign language pro 15) Acknowledgment is made of a claim for domesti						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152)				
S. Patent and Trademark Office						

Application/Control Number: 09/204,123

Art Unit: 3729

## **DETAILED ACTION**

## Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 4/22/03 has been entered.

# Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-2, 4 and 6-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Matsui et al (US 5,545,281) in view of Tate et al (US 4,774,634).

Matsui discloses a target surface (1) having a plurality of terminal parts, and substantially all the claimed limitations.

Matsui fails to provide support for providing a plurality of terminal-forming areas being no greater than corresponding one of the electronic components and providing a plurality of specified terminal-forming areas including a plurality of terminal parts directly thereon such that each pair of the terminal parts within any one of the terminal-forming areas is closer to each other than any pair of the terminal parts in different ones of the terminal-forming areas.

Application/Control Number: 09/204,123

Art Unit: 3729

Page 3

Tate discloses providing a plurality of specified terminal-forming areas (areas where electronic components 27, 20, 25-26, 20, 31, 24, 28) including a plurality of terminal parts (where electronic components are connected to in Fig. 3) directly thereon such that each pair of the terminal parts within any one of the terminal-forming areas is closer to each other than any pair of the terminal parts in different ones of the terminal-forming areas (areas where 24 and 28 lie closer than 26 and 27) thereby providing more electronic components on a small real estate printed circuit board to perform more functions.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Matsui by providing a plurality of specified terminal-forming areas including a plurality of terminal parts directly thereon such that each pair of the terminal parts within any one of the terminal-forming areas is closer to each other than any pair of the terminal parts in different ones of the terminal-forming areas, as taught by Tate, for the purpose of providing more electronic components on a small real estate printed circuit board to perform more functions.

Matsui discloses in Fig. 2 shows one specificed terminal-forming area being no greater than corresponding one electronic component (201). Matsui fails to disclose a plurality of terminal-forming areas and a plurality of corresponding electronic components. It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide a plurality of terminal-forming areas and a plurality of corresponding electronic components, since it have been held that mere duplication of the essentilal working parts of a device involves only routine skill in the art. *St. Regis Paper Co. v. Bemis Co.*, 193 USPO 8.

## Response to Arguments

Application/Control Number: 09/204,123 Page 4

Art Unit: 3729

4. Applicant's arguments filed 4/22/03 have been fully considered but they are not persuasive.

Examiner addresses the applicants' concerns above in the rejection.

## Interviews After Final

5. Applicant note that an interview after a final rejection will not be granted unless the intended purpose and content of the interview is presented briefly, in writing (the agenda of the interview must be in writing) to clarify issues for appeal requiring only nominal further consideration. <u>Interviews merely to restate arguments of record or to discuss new limitations</u> will be denied. See MPEP 714.13 and 713.09.

#### Conclusion

- 6. Please provide reference numerals to all the claimed limitations as well as support in the disclosure for better clarity. Applicants are duly reminded that a full and proper response to this Office Action that includes any amendment to the claims and specification of the application as originally filed requires that the applicant point out the support for any amendment made to the disclosure, including the claims. See 37 CFR 1.111 and MPEP 2163.06.
- 7. All claims are drawn to the same invention claimed in the application prior to the entry of the submission under 37 CFR 1.114 and could have been finally rejected on the grounds and art of record in the next Office action if they had been entered in the application prior to entry under 37 CFR 1.114. Accordingly, **THIS ACTION IS MADE FINAL** even though it is a first action after the filing of a request for continued examination and the submission under 37 CFR 1.114.

Application/Control Number: 09/204,123

Art Unit: 3729

Page 5

CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

See MPEP § 706.07(b). Applicant is reminded of the extension of time policy as set forth in 37

MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

MONTHS of the mailing date of this final action and the advisory action is not mailed until after

the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR

1.136(a) will be calculated from the mailing date of the advisory action. In no event, however,

will the statutory period for reply expire later than SIX MONTHS from the mailing date of this

final action.

8. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Rick K. Chang whose telephone number is (703) 308-4784. The

examiner can normally be reached on 5:30 AM to 1:30 PM, Monday through Friday, except for

maxi-flex day off (any one of working days).

The fax phone numbers for the organization where this application or proceeding is

assigned are (703) 872-9302 for regular communications and (703) 872-9303 for After Final

communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703) 308-1148.

RICHARD CHANG PRIMARY EXAMINER